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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Navy **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0205604N: <i>Tactical Data Links</i>
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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	28.241	69.189	118.818	-	118.818	87.893	50.509	43.432	48.167	Continuing	Continuing
2126: <i>ATDLS Integration</i>	28.241	57.189	81.912	-	81.912	66.541	50.509	43.432	48.167	Continuing	Continuing
3341: <i>Network Tactical Common Data Link</i>	-	-	14.907	-	14.907	16.352	-	-	-	0.000	31.259
4022: <i>Other Tactical Data Link Engineering</i>	-	12.000	21.999	-	21.999	5.000	-	-	-	0.000	38.999

A. Mission Description and Budget Item Justification

This Program Element develops and improves the Navy's Tactical Data Link (TDL) systems. It includes the Advanced Tactical Data Link Systems (ATDLS) Integration Programs, specifically Link 16 Network, Command and Control Processor (C2P) and Link Monitoring and Management Tool (LMMT) (formerly Air Defense System Integrator (ADSI)). The Program Element develops network tactical common data link command and control Intelligence, Surveillance, and Reconnaissance (ISR) data exchange capability across dissimilar networks. The Program Element also develops and tests tactical data link capability to distribute other data types to new and existing platforms.

JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under OPERATIONAL SYSTEMS DEVELOPMENT because it encompasses engineering and manufacturing development for upgrade of existing operational systems.

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	28.854	69.224	87.653	-	87.653
Current President's Budget	28.241	69.189	118.818	-	118.818
Total Adjustments	-0.613	-0.035	31.165	-	31.165
• Congressional General Reductions	-	-0.035			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.539	-			
• SBIR/STTR Transfer	-0.983	-			
• Program Adjustments	-	-	31.237	-	31.237
• Rate/Misc Adjustments	-	-	-0.072	-	-0.072
• Congressional General Reductions Adjustments	-0.169	-	-	-	-

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<p><u>Change Summary Explanation</u></p> <p>Schedule: ATDLS Integration: Link 16 Network Increment II Dynamic Network Management (DNM) (2126): The following milestones/events have slipped 3 quarters due to the delayed approval of critical acquisition documentation and TEMP staffing: DNM Milestone C/Full Development Decision Review (FDDR), Initial Operating Capability (IOC), Joint Tactical Information Distribution System (JTIDS) DNM Developmental Test (DT)/Operational Test (OT), JTIDS Developmental Test Readiness Review (DTRR), JTIDS Operational Test Readiness Review (OTRR), and Multifunctional Information Distribution System (MIDS) On Ship (MOS) DT (only 1 quarter).</p> <p>Link 16 Network Increment II Cryptographic Modernization (CM)/Frequency Remapping (FR) (2126): JTIDS System Requirements Review (SRR) slipped (from FY 2011Q3 to FY 2011Q4) due to engineering requirements issues in the functional baseline. The following JTIDS/MOS CM/FR Integration (Ship) milestones/ events have been advanced to maintain alignment with C2P Program development changes: SRR (from FY 2014Q2 to FY 2013Q2), Preliminary Design Review (PDR) (from FY 2014Q4 to FY2013Q4) and Critical Design Review (CDR) (FY 2015Q2 to FY 2014Q2).</p> <p>Command and Control Processor (C2P) (2126): C2P Technology Refresh milestones/events have slipped due to Department priorities: SRR (from FY 2012Q2 to FY 2013Q2), PDR (from FY 2012Q4 to FY 2013Q4), CDR (from FY 2013Q2 to FY 2014Q2), DTRR (from FY 2013Q4 to FY 2016Q2), OTRR (from FY 2014Q2 to FY 2016Q4), DT (from FY 2014Q1 to FY 2016Q3), OT (from FY 2014Q4 to FY 2016Q4), Production Readiness Review (PRR) (FY2017Q4). C2P Interoperability has been changed to a rapid software update effort and advanced in the schedule due to the Department's higher-priority objectives. C2P Interoperability In Progress Review (IPR), DT Combat System Certification, and Software Update added to the schedule. C2P Interoperability SRR, PDR, and CDR were removed from the schedule. C2P Link 22 development efforts were accelerated with the addition of funds. Link 22 SRR advanced (from FY 2016Q4 to FY 2014Q1), PDR (FY2014Q3), CDR, (FY2015Q1), and added Inc 3 Milestone C (2017Q4), Software Builds have been added to the schedule based on Department priorities, and to meet coalition forces communication requirements timelines.</p> <p>Link Monitoring and Management Tool (LMMT) Increment I (formerly Air Defense System Integrator (ADSI)) (2126) is a FY 2013 new start and has been added to the schedule.</p> <p>The Network Tactical Common Data Link (3341) is a FY 2013 new start and has been added to the schedule.</p>		

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy **DATE:** February 2012

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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
2126: <i>ATDLS Integration</i>	28.241	57.189	81.912	-	81.912	66.541	50.509	43.432	48.167	Continuing	Continuing
Quantity of RDT&E Articles	0	0	5	0	5	0	0	0	0		

A. Mission Description and Budget Item Justification

A. Mission Description and Budget Item Justification

This project develops and improves the Navy's Tactical Data Link (TDL) systems. It includes the Advanced Tactical Data Link Systems (ATDLS) Integration Programs, specifically Link 16 Network, Command and Control Processor (C2P) and Link Monitoring and Management Tool (LMMT) (formerly Air Defense System Integrator (ADSI)).

ATDLS Integration Program develops new and improved capabilities for Navy tactical data link users. The Navy Link 16 Network Increment II consists of Dynamic Network Management (DNM), Cryptographic Modernization (CM) and Frequency Remapping (FR). C2P Technology Refresh (TR) and C2P Interoperability will modernize legacy C2P processing components to address C2P component obsolescence and fleet interoperability issues. C2P is a critical component in the Aegis Ballistic Missile Defense (BMD) architecture. Modernization is a service life extension program required to sustain C2P support of Naval Air and BMD capabilities. Link 22 development and integration into the C2P allows for standard data link communication with Coalition forces. LMMT Increment I (formerly ADSI) will upgrade commercial off-the-shelf hardware and modernize software operating systems. LMMT Increment II will improve data link performance monitoring and management in support of the Integrated Air & Missile Defense (IAMD) and BMD missions.

Link 16 Network Increment II funds the DNM capability and the implementation of Link 16 Network DNM on Navy ships, shore sites and airborne Link 16 terminals. DNM will provide automatic reconfiguration of Link 16 networks that respond instantly to emergent war fighter requirements. DNM consists of new terminal protocols that include Time Slot Reallocation and Combined Network Participation Groups. The DNM capabilities will be incorporated into Next Generation Command and Control Processor (NGC2P). Increment II also funds the following activities: (1) development and implementation of CM and FR mandates as a product improvement into Link 16 terminals and integration into shore sites, ship (NGC2P), and current Navy Joint Tactical Information Distribution System (JTIDS) airborne platforms; (2) development, integration, testing, and fielding of additional stacked networks and studies; (3) Developmental Tests / Operational Tests (DT/OT) of Navy platform modifications; and (4) implementation of new Link 16 information / data into the shipboard C2P to support Link 16 Network new and improved capabilities. (5) Provide product improvement for continued production capability of shipboard Link 16 Terminals.

FY 2013 Justification: Funding will provide for Link 16 Network DNM Multifunctional Information Distribution System (MIDS) On Ship (MOS) Follow-on Operational Test and Evaluation (FOT&E). Funding will provide for JTIDS CM/FR detailed design leading to Critical Design Review (CDR) and development of five Engineering and Manufacturing Development units to be used for National Security Agency (NSA) Cryptographic Certification and acceptance testing in FY 2014. Funding will also provide for MOS CM/FR requirements and design work to support a Systems Requirements Review (SRR), Preliminary Design Review (PDR) and CDR. JTIDS and MOS CM/FR efforts are in support of NSA (NSA Policy 3-9) and Joint Chiefs of Staff mandates (Chairman of the Joint Chiefs of Staff Instruction Notice 6510.02), for the modernization of the cryptographic algorithm used in Link 16 terminals and the Department of Defense and the Department of Transportation Memorandum of

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy	DATE: February 2012
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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0205604N: <i>Tactical Data Links</i>	PROJECT 2126: <i>ATDLS Integration</i>
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Agreement (Regarding the 960-1215 MHz. Frequency Band, 31 December 2002) for the implementation of a capability to remap any 14 of the existing 51 frequencies in order to remain operable within the United States and its possessions. All Link 16 terminals are required to have this capability to support Link 16 Interoperability.

Command and Control Processor (C2P) Technology Refresh (TR) funds a product improvement effort to the legacy C2P hardware components and allows C2P software to execute on modern processors, thereby extending its effective service life. Product improvement efforts will include C2P software development, hardware integration, update of the C2P development environment to promote sustainability and testing to include Developmental Test (DT)/Operational Test (OT) of the C2P TR baseline. C2P Interoperability funds changes to C2P needed to improve shipboard tactical data link interoperability and reliability.

C2P, Phase 3, Increment 3 is planned to include Link 22, which is an Electronic Counter Measure (ECM) resistant, Beyond Line of Sight (BLOS) tactical data communication system utilizing fixed frequency or frequency hopping techniques in the High Frequency (HF) (3-30 Megahertz (MHz)) and/or the Ultra High Frequency (UHF) (225-400 MHz) bands.

FY 2013 Justification: C2P Interoperability efforts have been accelerated ahead of C2P TR. In FY 2013, will support C2P Interoperability Combat System Certification. In FY 2013, C2P TR funding will provide for requirements and design of C2P TR baseline in support of Systems Requirements Review (SRR) and Preliminary Design Review (PDR), leading to a Critical Design Review (CDR), which will occur in FY 2014Q2. Link-22 efforts commence in FY 2013.

Link Monitoring and Management Tool (LMMT) (formerly Air Defense System Integrator (ADSI)) is a near real-time tactical command and control system delivered on commercial off-the-shelf hardware providing for multiple Tactical Data Link (TDL) interfaces, processing and display of Link 11A, Link 11B, Link 16, Joint Range Extension and North Atlantic Treaty Organization Link 1. LMMT is also capable of performing data forwarding between the TDLs and providing tactical data to the Global Command and Control System, Maritime for establishing the Common Operational Picture.

FY 2013 Justification: LMMT Increment I is a new start in FY 2013. Funding will provide for the development of requirements, interoperability, test, and logistics products to support Developmental Testing in FY 2013.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2011	FY 2012	FY 2013
<p>Title: Link 16 Network Increment II (Formerly ATDLS Integration) - Dynamic Network Management (DNM)</p> <p style="text-align: right;">Articles:</p> <p>FY 2011 Accomplishments: Initiated Joint Tactical Information Distribution System (JTIDS) DNM DT preparation. Developed Link 16 Network integrated logistics support products.</p> <p>FY 2012 Plans:</p>	<p>5.362</p> <p>0</p>	<p>3.651</p> <p>0</p>	<p>1.500</p> <p>0</p>

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
<p>Conduct JTIDS DNM DT / OT leading up to DNM Milestone C. Conduct Multifunctional Information Distribution System (MIDS) On Ship (MOS) DNM DT to support MOS DNM Follow-on Operational Test and Evaluation (FOT&E)/Operational Test Readiness Review (OTRR). Continue Link 16 Network integrated logistics support.</p> <p>FY 2013 Plans: Conduct MOS DNM FOT&E and achieve DNM Milestone C.</p>				
<p>Title: Link 16 Network Increment II (Formerly ATDLS Integration) - Cryptographic Modernization (CM) / Frequency Remapping (FR)</p> <p>Articles:</p> <p>FY 2011 Accomplishments: Initiated Joint Tactical Information Distribution System (JTIDS) airborne (E-2C) platform integrations studies and analysis. Conducted JTIDS System Requirements Review (SRR) for Cryptographic Modernization (CM) / Frequency Remapping (FR). Developed Link 16 Network integrated logistics support products. Conducted technical requirements study on classified future Link-16 capability.</p> <p>FY 2012 Plans: Continue Link 16 Network integrated logistics support. Continue JTIDS airborne integration study and initiate the shipboard integration study. Conduct JTIDS Preliminary Design Review (PDR). Conduct detailed design of the CM/FR product improvement. Begin development of system technical requirements for the integration of Multifunctional Information Distribution System (MIDS) On Ship (MOS) with CM/FR into ship.</p> <p>FY 2013 Plans: Conduct JTIDS CM/FR Critical Design Review (CDR) and initiate development of JTIDS CM/FR Engineering Manufacturing Development (EMD) units. Conduct MOS CM/FR System Requirements Review SRR/PDR. Initiate development of MOS Product Improvement for continued product ability. Initiate CM/FR shipboard integration.</p>		22.879 0	36.836 0	39.597 5
<p>Title: Command and Control Processor (C2P)</p> <p>Articles:</p> <p>FY 2012 Plans: C2P Interoperability initial software build and developmental testing will commence, supporting field testing during Trident Warrior in FY 2012. C2P Technology Refresh (TR) will commence development of Technology Refresh architecture requirements, integration with modernized data link cryptographic devices and software / hardware technology prototyping in support of FY 2013 design reviews.</p> <p>FY 2013 Plans:</p>		-	16.702 0	37.615 0

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2011	FY 2012	FY 2013
Support C2P Interoperability combat system certification. C2P TR funding will provide for requirements, design, initial development, and integration of C2P Technology Refresh baseline product improvements in support of SRR and PDR, leading to a Critical Design Review (CDR), which will occur in FY 2014. Link-22 efforts commence development of Link-22 Data Link Processor (DLP) in FY 2013 in support of design milestones planned in FY 2014.			
Title: Link Monitoring and Management Tool (LMMT) (formerly Air Defense System Integrator (ADSI)) Articles:	-	-	1.000 0
FY 2013 Plans: LMMT Increment I (formerly ADSI) is a new start. Provide for the development of requirements, interoperability, test, and logistics products to support Developmental Test Readiness Review (DTRR) and Developmental Testing of commercial off-the-shelf hardware and upgraded software in FY 2013.			
Title: Joint Aerial Layer Network (JALN) Articles:	-	-	2.200 0
FY 2013 Plans: Joint Aerial Layer Network (JALN) is a prototype development of a communications relay capability intended to improve and ensure adequate tactical network communications in a jammed environment.			
Accomplishments/Planned Programs Subtotals	28.241	57.189	81.912

C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u> <u>Base</u>	<u>FY 2013</u> <u>OCO</u>	<u>FY 2013</u> <u>Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• OPN/2614: <i>ATDLS</i>	2.260	0.942	0.000	0.000	0.000	9.624	26.084	40.494	37.084	Continuing	Continuing

D. Acquisition Strategy

The JTIDS Crypto Modernization (CM)/Frequency Remapping (FR) development and Low Rate Initial Production (LRIP) contract was awarded to Data Link Solutions (DLS). The associated production contract for JTIDS CM/FR will be competitively awarded after Operational Test. The MOS CM/FR contract option will be exercised in FY13. Will award a MOS product improvement contract for continued capability. Link 16 Terminal CM/FR shipboard integration will be accomplished through the C2P contract. Will competitively award a contract for C2P Tech Refresh and Link-22 development in FY 2013. C2P Interoperability efforts will utilize the software support activity at Space and Naval Warfare Systems Command (SPAWAR) Systems Center Pacific. The Link Monitoring and Management Tool (LMMT) (formerly Air Defense System Integrator (ADSI)) will utilize test and evaluation personnel at both program office and Commander Operational Test and Evaluation Force (COMOPTEVFOR) to prepare for Developmental Test (DT)/Operational Test (OT).

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E. Performance Metrics

Link 16 Network DNM: Successfully achieve Milestone C. Successfully achieve Initial Operational Capability. Successfully conduct Full Deployment Decision Review. Successfully complete Operation Test Readiness Review. Successfully complete Developmental Test / Operational Test.

Link 16 Network Cryptographic Modernization: Successful implementation of updated cryptographic algorithm as specified by National Security Agency (NSA Policy 3-9) Certification in Joint Tactical Information Distribution System (JTIDS) and Multifunctional Information Distribution System (MIDS) on Ship (MOS) Link 16 terminals.

Link 16 Network Frequency Remapping: Successful implementation of a Frequency Remapping capability as specified in Department of Defense/Department of Transportation Memorandum of Agreement regarding the 960-1215 MHz Frequency Band of 31 Dec 02 in Joint Tactical Information Distribution System (JTIDS) and Multifunctional Information Distribution System (MIDS) on Ship (MOS) Link 16 Terminals.

Command and Control Processor (C2P): Successfully achieve C2P Technology Refresh Fielding and thereby maintain operational availability.

C2P Interoperability: Successfully support C2P Interoperability Combat System Certification.

Link 22: Successfully achieve Link 22 implementation fielding, meeting operational requirement.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy **DATE:** February 2012

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Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ATDLS Product Development and Integration	Various	Various:Various	363.158	-		-		-		-	0.000	363.158	363.158
Link 16 Network Development	SS/FFP	DLS (BAE/Rockwell):Wayne, NJ	26.388	22.749	Oct 2011	19.950	Oct 2012	-		19.950	Continuing	Continuing	Continuing
Link 16 Network Development (MOS)	C/BA	Unknown:Unknown	-	2.000	Sep 2012	7.600	Oct 2012	-		7.600	0.000	9.600	
Link 16 Network Software	WR	SPAWARSYSCEN PAC:San Diego, CA	2.496	-		-		-		-	0.000	2.496	Continuing
Link 16 Network Integrated Logistics Support	C/CPFF	SeaPort-E:San Diego, CA	1.100	0.753	Oct 2011	0.643	Oct 2012	-		0.643	Continuing	Continuing	Continuing
Link 16 Network Configuration Management	WR	SPAWARSYSCEN PAC:San Diego, CA	0.451	0.448	Oct 2011	0.442	Oct 2012	-		0.442	Continuing	Continuing	Continuing
Link 16 Network Systems Engineering	WR	SPAWARSYSCEN PAC:San Diego, CA	35.991	5.098	Oct 2011	4.598	Oct 2012	-		4.598	Continuing	Continuing	Continuing
C2P Development	C/IDIQ	Unknown:Unknown	-	4.000	Mar 2012	16.792	Dec 2012	-		16.792	Continuing	Continuing	Continuing
C2P Development (Interoperability)	WR	SPAWARSYSCEN PAC:San Diego, CA	-	4.351	Oct 2011	4.125	Oct 2012	-		4.125	Continuing	Continuing	Continuing
C2P Systems Engineering	WR	SPAWARSYSCEN PAC:San Diego, CA	-	2.441	Dec 2011	5.940	Oct 2012	-		5.940	Continuing	Continuing	Continuing
LMMT Inc I Integrated Logistics Support	C/CPFF	SeaPort-E:San Diego, CA	-	-		0.250	Oct 2012	-		0.250	0.000	0.250	
Subtotal			429.584	41.840		60.340		-		60.340			

Remarks
Link 16 Network Development (MOS) - FY12 awarded to NGMS, San Diego, CA. FY13 performing activity is TBD.

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ATDLS Test and Evaluation	Various	Various:Various	65.171	-		-		-		-	0.000	65.171	65.171

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy **DATE:** February 2012

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Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Link 16 Network Developmental T&E	WR	SPAWARSYSCEN PAC:San Diego, CA	3.038	4.017	Oct 2011	2.452	Oct 2012	-		2.452	Continuing	Continuing	Continuing
Link 16 Network Operational T&E	WR	SPAWARSYSCEN PAC:San Diego, CA	2.164	-		1.500	Oct 2012	-		1.500	Continuing	Continuing	Continuing
C2P T&E	WR	SPAWARSYSCEN PAC:San Diego, CA	-	4.240	Oct 2011	7.859	Oct 2012	-		7.859	Continuing	Continuing	Continuing
LMMT Inc I Developmental T&E	WR	SPAWARSYSCEN PAC:San Diego, CA	-	-		0.750	Oct 2012	-		0.750	Continuing	Continuing	Continuing
Subtotal			70.373	8.257		12.561		-		12.561			

Management Services (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ATDLS System Engineering Support	Various	Various:Various	20.177	-		-		-		-	0.000	20.177	20.177
Link 16 Network Contractor Engineering Support	C/CPFF	SeaPort-E:San Diego, CA	3.409	1.675	Oct 2011	1.950	Oct 2012	-		1.950	Continuing	Continuing	Continuing
Link 16 Network Government Engineering Support	WR	SPAWARSYSCEN PAC:San Diego, CA	1.613	1.990	Oct 2011	1.880	Oct 2012	-		1.880	Continuing	Continuing	Continuing
Link 16 Network Program Management Support	C/CPFF	SeaPort-E:San Diego, CA	0.700	1.757	Oct 2011	2.215	Oct 2012	-		2.215	Continuing	Continuing	Continuing
C2P Program Management Support	C/CPFF	SeaPort-E:San Diego, CA	-	1.670	Oct 2011	2.966	Oct 2012	-		2.966	Continuing	Continuing	Continuing
Acquisition Workforce Fund	Various	Unknown:Unknown	0.020	-		-		-		-	0.000	0.020	0.020
Subtotal			25.919	7.092		9.011		-		9.011			

	Total Prior Years Cost	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals		525.876	57.189	81.912	-	81.912		

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy		DATE: February 2012
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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy		DATE: February 2012
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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy		DATE: February 2012
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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy **DATE:** February 2012

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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 2126				
Link 16 Network JTIDS CM/FR Development System Requirements Review	4	2011	4	2011
C2P Interoperability Initial Software Build	1	2012	1	2012
Link 16 Network JTIDS CM/FR Development Preliminary Design Review	2	2012	2	2012
Link 16 Network JTIDS DNM Developmental Test Readiness Review	2	2012	2	2012
NGC2P Increment II Full Operating Capability	2	2012	2	2012
C2P Interoperability Developmental Test	2	2012	2	2012
Link 16 Network MOS DNM Developmental Test Readiness Review	3	2012	3	2012
Link 16 Network JTIDS DNM Operational Test Readiness Review	3	2012	3	2012
Link 16 Network JTIDS DNM Developmental Test	3	2012	3	2012
C2P Interoperability In Progress Review	3	2012	3	2012
Link 16 Network MOS DNM Operational Test Readiness Review	4	2012	4	2012
Link 16 Network JTIDS DNM Operational Test	4	2012	4	2012
Link 16 Network MOS DNM Developmental Test	4	2012	4	2012
C2P Trident Warrior-12	4	2012	4	2012
Link 16 Network DNM Milestone C/Full Development Decision Review	1	2013	1	2013
Link 16 Network DNM Initial Operating Capability	1	2013	1	2013
Link 16 Network MOS DNM Follow On Operational Test & Evaluation	1	2013	1	2013
C2P Tech Refresh System Requirements Review	2	2013	2	2013
Link 16 Network JTIDS CM/FR Development Critical Design Review	2	2013	2	2013
Link 16 Network JTIDS/MOS CM/FR Integration (Ship) System Requirements Review	2	2013	2	2013
LMMT Inc I Developmental Test Readiness Review	3	2013	3	2013

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0205604N: <i>Tactical Data Links</i>	PROJECT 2126: <i>ATDLS Integration</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
C2P Interoperability Software Delivery	3	2013	3	2013
Link 16 Network MOS CM/FR Development (Ship) System Requirements Review	4	2013	4	2013
Link 16 Network MOS CM/FR Development (Ship) Preliminary Design Review	4	2013	4	2013
Link 16 Network JTIDS/MOS CM/FR Integration (Ship) Preliminary Design Review	4	2013	4	2013
C2P Tech Refresh Preliminary Design Review	4	2013	4	2013
C2P Interoperability Combat System Certification	4	2013	4	2013
LMMT Inc I Developmental Test	4	2013	4	2013
Link 16 Network MOS CM/FR Development (Ship) Critical Design Review	1	2014	1	2014
C2P Link 22 System Requirements Review	1	2014	1	2014
Link 16 Network JTIDS/MOS CM/FR Integration (Ship) Critical Design Review	2	2014	2	2014
C2P Tech Refresh Critical Design Review	2	2014	2	2014
LMMT Inc I Operational Test Readiness Review	2	2014	2	2014
Link 16 Network JTIDS CM/FR Test Readiness Review	3	2014	3	2014
LMMT Inc I Operational Test	3	2014	3	2014
C2P Link 22 Preliminary Design Review	3	2014	3	2014
Link 16 Network DNM Full Operating Capability	4	2014	4	2014
LMMT Inc I Fielding Decision Review	4	2014	4	2014
Link 16 Network JTIDS CM/FR Integration (Air) System Requirements Review	1	2015	1	2015
C2P Link 22 Critical Design Review	1	2015	1	2015
Link 16 Network JTIDS CM/FR Integration (Air) Preliminary Design Review	3	2015	3	2015
Link 16 Network CM/FR (Ship) Developmental Test Readiness Review	3	2015	3	2015
C2P Link 22 In Progress Review I	3	2015	3	2015
Link 16 Network CM/FR (Ship) Developmental Test	4	2015	4	2015
Link 16 Network JTIDS CM/FR Integration (Air) Critical Design Review	1	2016	1	2016
Link 16 Network CM/FR (Ship) Operational Test Readiness Review	1	2016	1	2016

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0205604N: <i>Tactical Data Links</i>	PROJECT 2126: <i>ATDLS Integration</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
C2P Tech Refresh Developmental Test Readiness Review	2	2016	2	2016
Link 16 Network CM/FR (Ship) Follow-on Operational Test and Evaluation	2	2016	2	2016
C2P Link 22 Software Build I	2	2016	2	2016
C2P Tech Refresh Developmental Test	3	2016	3	2016
LMMT Inc II System Requirements Review	3	2016	3	2016
C2P Tech Refresh Operational Test Readiness Review	4	2016	4	2016
C2P Tech Refresh Operational Test	4	2016	4	2016
C2P Link 22 Software Build II	4	2016	4	2016
Link 16 Network CM/FR Full Rate Production Decision Review	1	2017	1	2017
C2P Tech Refresh Fielding Decision Review	2	2017	2	2017
Link 16 Network CM/FR Initial Operating Capability	2	2017	2	2017
LMMT Inc II Preliminary Design Review	2	2017	2	2017
C2P Link 22 Software Build III	2	2017	2	2017
Link 16 Network CM/FR (Air) Developmental Test Readiness Review	3	2017	3	2017
LMMT Inc II Critical Design Review	3	2017	3	2017
C2P Link 22 In Progress Review II	3	2017	3	2017
Link 16 Network CM/FR (Air) Developmental Test	4	2017	4	2017
C2P Inc 3 Milestone C	4	2017	4	2017
C2P Tech Refresh Production Readiness Review	4	2017	4	2017

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0205604N: <i>Tactical Data Links</i>	PROJECT 3341: <i>Network Tactical Common Data Link</i>
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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
3341: <i>Network Tactical Common Data Link</i>	-	-	14.907	-	14.907	16.352	-	-	-	0.000	31.259
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

Note

FY13 New Start.

A. Mission Description and Budget Item Justification

Network Tactical Common Data Link (NTCDL) provides the ability to transmit/receive Intelligence, Surveillance, and Reconnaissance (ISR) data in real-time, and exchange command and control information (voice, data, and video) across dissimilar Joint, Service, Coalition, and civil networks. NTCDL provides warfighters with the capability to support multiple, simultaneous, networked operations with currently fielded CDL-equipped platforms (e.g. F/A-18, P-3, and MH-60R), in addition to next generation manned and unmanned platforms (e.g., P-8, Broad Area Maritime Surveillance (BAMS), and Fire Scout). NTCDL is a tiered capability (air, surface, sub-surface, portable) providing a modular, scalable, multiple-link networked communications. NTCDL benefits the fleet by providing horizon extension for line-of-sight sensor systems for use in time critical strike missions.

FY13 funding provides the initial program funding. Funds will be utilized to establish a procurement contract to design an NTCDL system appropriate to support Aircraft Carrier (CVN) CDL operations. The threshold requirement is for five (5) simultaneous off-ship CDL missions, with limited topside footprint as a design priority.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2011	FY 2012	FY 2013
Title: Network Tactical Common Data Link (NTCDL)	-	-	14.907
Articles:			0
FY 2013 Plans: FY13 funds will be used for: Acquisition documentation (Capability Development Document (CDD), System Performance Specification (SPS), Test and Evaluation Master Plan (TEMP), Integrated Master Schedule (IMS), etc). Also, contract to design/develop an NTCDL system appropriate to support Aircraft Carrier (CVN) CDL operations.			
Accomplishments/Planned Programs Subtotals	-	-	14.907

C. Other Program Funding Summary (\$ in Millions)

Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• OPN/2950: <i>Tactical Network Common Data Link</i>	0.000	0.000	0.000	0.000	0.000	0.000	27.300	19.400	7.000	Continuing	Continuing

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0205604N: <i>Tactical Data Links</i>	PROJECT 3341: <i>Network Tactical Common Data Link</i>

D. Acquisition Strategy

A full and open competition will be conducted to procure the NTCDL CVN system.

E. Performance Metrics

Joint Interoperability Test Command (JITC) certification of CDL waveforms

Number of simultaneous links: Threshold (T)= 5, Objective (O) = 12

Data rate - Minimum one 274 Megabit per second (Mbps) link (T), additional links must be 45Mbps or greater

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0205604N: <i>Tactical Data Links</i>	PROJECT 3341: <i>Network Tactical Common Data Link</i>
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Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
NTCDL Product Development	C/CPWF	unknown:unknown	-	-		12.004	Apr 2013	-		12.004	17.000	29.004	
Subtotal			-	-		12.004		-		12.004	17.000	29.004	

Support (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering	WR	SPAWARSYSCTR:San Diego, CA	-	-		0.700	Oct 2012	-		0.700	0.700	1.400	
Subtotal			-	-		0.700		-		0.700	0.700	1.400	

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
NTCDL Test and Evaluation	WR	SPAWARSYSCTR:San Diego, CA	-	-		1.000	Oct 2012	-		1.000	1.000	2.000	
Test and Review	MIPR	JITC:Fort Huachuca, AZ	-	-		0.200	Oct 2012	-		0.200	0.200	0.400	
Waveform certification	MIPR	COMOPTEVFOR:Norfolk, VA	-	-		0.200	Oct 2012	-		0.200	0.200	0.400	
Subtotal			-	-		1.400		-		1.400	1.400	2.800	

Management Services (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management	WR	SPAWARSYSCTR:San Diego, CA	-	-		0.500	Oct 2012	-		0.500	0.500	1.000	
Program Management Support	SS/CPFF	SEAPORT-E:San Diego, CA	-	-		0.303	Oct 2012	-		0.303	0.497	0.800	

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0205604N: <i>Tactical Data Links</i>	PROJECT 3341: <i>Network Tactical Common Data Link</i>

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0205604N: <i>Tactical Data Links</i>	PROJECT 3341: <i>Network Tactical Common Data Link</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3341				
NTCDL- Capabilities Development Document (CDD)	1	2013	1	2013
NTCDL- Milestone B	2	2013	2	2013
NTCDL- Request for Proposal (Contract)	2	2013	2	2013
NTCDL- Contract Award	3	2013	3	2013
NTCDL- Preliminary Design Review (PDR)	4	2013	4	2013
NTCDL- Acquisition Strategy (MS B)	1	2013	1	2013
NTCDL- Critical Design Review (CDR)	4	2013	4	2013
NTCDL-System Spec/Statement of Work	1	2013	1	2013
NTCDL- First Test Article	3	2014	3	2014
NTCDL- Shock Testing	3	2014	3	2014
NTCDL- Capability Production Document (CPD)	3	2014	3	2014
NTCDL- Test and Evaluation Master Plan (TEMP) (OA)	4	2014	4	2014
NTCDL- Development Test (DT) and Operational Assessment (OA)	4	2014	4	2014
NTCDL- Milestone C	1	2015	1	2015
NTCDL- Acquisition Strategy (MS C)	1	2015	1	2015
NTCDL- Low Rate Initial Production (LRIP) Contract Award	1	2015	1	2015
NTCDL- LRIP Deliveries	1	2016	1	2016
NTCDL- Initial Operating Capability (IOC)	1	2016	1	2016
NTCDL- Developmental Test/Operational Test Installs	3	2015	3	2015
NTCDL- Development Test (DT) and Operational Test (OT)	1	2016	1	2016
NTCDL- Test and Evaluation Master Plan (TEMP) (OT)	4	2015	4	2015

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0205604N: <i>Tactical Data Links</i>	PROJECT 3341: <i>Network Tactical Common Data Link</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
NTCDL-Full Rate Production Directive (FPR-DR)	4	2016	4	2016
NTCDL- Acquisition Strategy (FRP)	3	2016	3	2016
NTCDL- Full Rate Production Contract Award	4	2016	4	2017
NTCDL- Full Rate Productions Deliveries/Installs	4	2017	4	2017

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy									DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>				R-1 ITEM NOMENCLATURE PE 0205604N: <i>Tactical Data Links</i>				PROJECT 4022: <i>Other Tactical Data Link Engineering</i>			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
4022: <i>Other Tactical Data Link Engineering</i>	-	12.000	21.999	-	21.999	5.000	-	-	-	0.000	38.999
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

See Classified Annex for details of this project.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2011	FY 2012	FY 2013
Title: Other Tactical Data Link Engineering	-	12.000	21.999
Articles:		0	0
FY 2012 Plans: See Classified Annex for details of this project.			
FY 2013 Plans: See Classified Annex for details of this project.			
Accomplishments/Planned Programs Subtotals	-	12.000	21.999

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

See Classified Annex for details of this project.

E. Performance Metrics

See Classified Annex for details of this project.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0205604N: <i>Tactical Data Links</i>	PROJECT 4022: <i>Other Tactical Data Link Engineering</i>
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Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ACD Development and Integration	SS/CPFF	Raytheon:Sudbury, MA	-	10.342	Apr 2012	15.808	Nov 2012	-		15.808	3.400	29.550	35.525
ACD Development and Integration	WR	SPAWAR:San Diego, CA	-	0.747	Feb 2012	2.683	Nov 2012	-		2.683	0.140	3.570	
Subtotal			-	11.089		18.491		-		18.491	3.540	33.120	

Remarks
See Classified Annex for details of this project.

Support (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering Support	C/CPFF	JHU/APL:Laurel, MD	-	0.100	Feb 2012	0.100	Dec 2012	-		0.100	0.025	0.225	
Systems Engineering Support	WR	SPAWAR:San Diego, CA	-	0.411	Feb 2012	0.474	Dec 2012	-		0.474	0.660	1.545	
Systems Engineering Support	MIPR	MIT/LL:Hanscom, MA	-	0.025	Feb 2012	0.025	Dec 2012	-		0.025	0.150	0.200	
Systems Engineering Support	C/CPAF	Systems, Planning and Analysis:Alexandria, VA	-	0.350	Feb 2012	0.600	Dec 2012	-		0.600	0.300	1.250	
Subtotal			-	0.886		1.199		-		1.199	1.135	3.220	

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ACD Test	SS/CPFF	Raytheon:Subury, MA	-	-		2.000	Nov 2012	-		2.000	0.000	2.000	0.250
ACD Test	WR	SPAWAR:San Diego, CA	-	-		0.284	Dec 2012	-		0.284	0.300	0.584	
Subtotal			-	-		2.284		-		2.284	0.300	2.584	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0205604N: <i>Tactical Data Links</i>	PROJECT 4022: <i>Other Tactical Data Link Engineering</i>
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Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total		Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost				

Remarks
See Classified Annex for details of this project.

Management Services (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total		Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost				
Program Management Support	C/CPAF	Systems, Planning and Analysis: Alexandria, VA	-	0.025	Feb 2012	0.025	Dec 2012	-		0.025	0.025	0.075	3.225	
Subtotal			-	0.025		0.025		-		0.025	0.025	0.075	3.225	

Remarks
See Classified Annex for details of this project.

	Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	12.000		21.999		-		21.999	5.000	38.999	

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0205604N: <i>Tactical Data Links</i>	PROJECT 4022: <i>Other Tactical Data Link Engineering</i>

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

Proj 4022	
See Classified Annex for Details.	

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0205604N: <i>Tactical Data Links</i>	PROJECT 4022: <i>Other Tactical Data Link Engineering</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 4022				
See Classified Annex for Details.	1	2012	1	2016